

# Raw Sequence Listing Error Summary

#13  
3/23/01

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/369,992

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 \_\_\_\_\_ Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 \_\_\_\_\_ Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 \_\_\_\_\_ Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 \_\_\_\_\_ Misaligned Amino Acid Numbering      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 \_\_\_\_\_ Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 \_\_\_\_\_ Variable Length      Sequence(s) \_\_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 \_\_\_\_\_ PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 \_\_\_\_\_ Skipped Sequences (OLD RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 \_\_\_\_\_ Skipped Sequences (NEW RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 \_\_\_\_\_ Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 \_\_\_\_\_ Use of <213>Organism (NEW RULES)      Sequence(s) \_\_\_\_\_ are missing this mandatory field or its response.
- 12 \_\_\_\_\_ Use of <220>Feature (NEW RULES)      Sequence(s) \_\_\_\_\_ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 \_\_\_\_\_ PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

1641

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/369,992

DATE: 03/23/2001  
 TIME: 09:21:16

Input Set : A:\09 369992.txt  
 Output Set: N:\CRF3\03232001\I369992.raw

3 <110> APPLICANT: The National University of Singapore  
 4 Institute of Molecular and Cell Biology  
 6 <120> TITLE OF INVENTION: Diagnosis of Parasites  
 8 <130> FILE REFERENCE: 09 369992.prj  
 10 <140> CURRENT APPLICATION NUMBER: US 09/369,992  
 C--> 11 <141> CURRENT FILING DATE: 1999-08-06  
 13 <150> PRIOR APPLICATION NUMBER: AU PO4953/97  
 14 <151> PRIOR FILING DATE: 1997-02-06  
 16 <150> PRIOR APPLICATION NUMBER: AU PO6329/97  
 17 <151> PRIOR FILING DATE: 1997-04-21  
 19 <150> PRIOR APPLICATION NUMBER: AU PO9481/97  
 20 <151> PRIOR FILING DATE: 1997-09-26  
 22 <150> PRIOR APPLICATION NUMBER: PCT/IB/00212  
 23 <151> PRIOR FILING DATE: 1998-02-05  
 25 <160> NUMBER OF SEQ ID NOS: 53  
 27 <170> SOFTWARE: PatentIn version 3.0  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 5849  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Plasmodium berghei  
 34 <400> SEQUENCE: 1  
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 37 agtacgttca aattgtgcaa aatcataaga attagtctta aaataagttg ataaattaaa 120  
 39 actacatttt atatacttag acacataaca aaaagatcct tcactaaaaa taattgaatt 180  
 41 aatatttgca aaaaaattat ctttataaga aactacagtt cctaaatatt tttttactaa 240  
 43 taaaggatat tttaaaataa cgtccaataa agacaaaaat ataataccta atttttttaa 300  
 45 aaaatattgt gttgtatgta aaacagatat actatcacia ataacatcaa taggaattat 360  
 47 ttttttatta aaataggtag ctaaaaaatt tatattttaa ttagttttta aatatactaa 420  
 49 caaattacta tcttttaaag tagaagaata ataaataata ttatcataac taatattggg 480  
 51 acattcgaaa cagcaccaat ctggtaatth aaacatatth aaaaatttta aagaatatat 540  
 53 tttaaatthg taaataaaaa aatataaata aatattatta gataaattht ttatcaaat 600  
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 59 atattataaa atatttcaag ttaacgatga gatttgaact cacaatctac tgattacaaa 780  
 61 tcagttgctt taccatataa gccactttta caaatataat atttataatt aaatattcaa 840  
 63 cttatttaga attatacaca aaatatatta ctataaatac atatttaattc tataaaataa 900  
 65 tttttctaatt tattgtttta ttcatattata tgattagaat attattttta attaaatttt 960  
 67 cttattttata ttacttcaac aattaaaatt ttatacttaa ctactcaaca ttacaaaata 1020  
 69 taataattga tatatcattg gtataatttt ttcgatcctc tcgtactaga aaaaaataat 1080  
 71 tcaatattct aacacttata ttagatatgg accgaactgt ctacagacgt tctgaaccca 1140  
 73 gctcacgtat cgctttaata ggcgaacaga cttaccctta aaacatacta ctgccttagg 1200  
 75 atgcgataag cgcacatcga ggtgccaaac cttttcgta atatggactc tcggaaaaga 1260  
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 81 atataattat ctttatataa taaatataac attgtacacc tccgttttta tataggagga 1440  
 83 gaccgcccc agtcaactat cttataaata ttgttaaaaa ttttgttata aaaattttat 1500  
 85 aagaatttat atatatataa aatgggtattt cattaacaat tacattattt ccaaaaaaat 1560

Does Not Comply  
 Corrected Diskette Needed

Mr 4-5

RAW SEQUENCE LISTING  
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Input Set : A:\09 369992.txt  
 Output Set: N:\CRF3\03232001\I369992.raw

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91 ttattttcatt aagattttttt ttaagacagc atttaagtcg ttacatcttt catgcaggtc 1740
93 ggaacttacc cgacaaggaa ttctgctacc ttgggaccgt tatagataca gccgccggtt 1800
95 actatagctt atatatatat tataatttta aattataaat attattttta cataatagca 1860
97 ctgggcagat gtcaatcttt atacatcctc ttctgattta gcaaagattt gtgtttttgt 1920
99 taaacagtcg cttaaatttt ttgttttcaa ctaaataagt atctcttctc ccctaagttt 1980
101 acgagataaa ttgcccaggt tccctaaaaa aaattatctc aacttcttaa taatttatat 2040
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105 ttatataata taatatattt attattatat tagtttttaa atataaatat tattatatag 2160
107 tataagaata ttaacttatt acctatcgat tacacattac atctcatctc aagatacgac 2220
109 taacctctatt taaaataata ataaatagga gcccttaaat tatagaagta ttggattttt 2280
111 accaatattt acattactca aattagcatt atcacttttg atataattat ttttaactttt 2340
113 catataaata attttatctc aaaacgctct ttaccaatt taattttatt aatattaaat 2400
115 tttatataca tcgataatta atttattttc gattattttc gaactaaaat tactaaaata 2460
117 atgagctttt acgcactctt taaaagataa ctgcttctaa atttactttt taattattta 2520
119 aataatttta tattcttttt aagacttaat taatatttaa aaatcttaat ttataattcg 2580
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127 agctactctc aaattcgatt ggcatttcac ctctaattat actttatttg atacttttgc 2820
129 aacagtaacc aattcaaaact tcaattttaa tttattttaa tcttatttta aatataatta 2880
131 gatcatttga tttcgggtct atataaata atataactaaa tgcattattat atataataac 2940
133 aaactcgagt atactttggc ttcatTTata aatattttaa ctataaatta tactatttat 3000
135 tataacttgc taattctttc ttcaacaaga aaataataaa atttatattaa attttattat 3060
137 tattttattaa attttaaatt caggttcttt tcaactattt ctcaaaatcc ttttcatctt 3120
139 tccctcacgg tactattcac tatcaacttt tattatatta aattttataa gataactctt 3180
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173 tcaattctac tttattccat attataaaat ctataaatgt tataattttt aaataatata 4200
175 tatataatta tattgcgagt ttgatcctag ctcaaatga acgctagaaa tatacattac 4260
177 acatgcaaat ttatggatta tatcatagtg aatagggtgag gatataataa tttttaattt 4320
179 taaatagatt ataatatata ataactata agcgcatTTa tttatataat tgtactatat 4380
181 taaaatttat tattgtttaa aataaaattt atatttgatt aactagtttg taaaataaaa 4440
183 gcctaccaag gttatgatca aaaattgggt ttaaagaatg tacaatcaca ttagggattg 4500

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189 tttattttta aatattgata aaaataaaac attagtattt gctaatttct gtgccagcag 4680
191 cagcggtaat acagaaaata ccagcggtat tcactttatt tggcgtaaa cgttttaagg 4740
193 ttttatatta attttatttt aaaatattta attttaaattt gaataaaaaa taaataataa 4800
195 tataataaga gtattataaa agtattaaga attttttgag aagtagtgaa atgcaatgat 4860
197 acaaaaaaga ataccaaaag cgaaggcata atactatata ataactgaca cttataaacg 4920
199 aaagctaagg tagcaaatag gattagatac cctagtagtc tttagctgtaa actatgaata 4980
201 ttttatattt atatattaat ataaatataa taactaacgt aataaatatt cgcctgagt 5040
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205 atgtggctta attcgatgca acacgataaa ccttaccaaa atttaacaat atttttatta 5160
207 ttaaggaatt aatagtttaa taaaatatat aggtagtga tggctgtcgt cagttcgtgc 5220
209 tgtgaagtat taatttaagt attataacga acgtaaccct tttataaaaa aaatttttta 5280
211 taatatattt attaaatata taaaaaagac tacgtcaagt cattatgctc cttatatattt 5340
213 gggctgctca cgtgttacat aaaatataac aatattttat tatatgaaaa tataatatat 5400
215 taaatatatt tatagttctg attataaatt gaaactcatt tatatgaaga tggaatcact 5460
217 agtaatcgct aataagaagt atagcgtgga ataagttctt aagctttgta cacaccgccc 5520
219 gtcacatctg gaaaatatta tattatataa aaattattgt aaaataataa tatataatta 5580
221 tataatttag atgaagtcgt aacaagtag cgtactgga aggtgcggt ggataataac 5640
223 ataaaaattt ggttgaatta tttatttaaa aataatattt atataaaaa gtaattataa 5700
225 ttatatattt tttatagaca aaaatagcat taatacacat taatgtaaat ttagttaaat 5760
227 attattttat atataaaa gtttttagtt taatggtaaa acatactctt gataagggtg 5820
229 agactttagt tcaattctaa aataacctt 5849
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233 <211> LENGTH: 1711
234 <212> TYPE: DNA
235 <213> ORGANISM: Plasmodium berghei
237 <400> SEQUENCE: 2
238 ttcagaaaaa taggatttga acctatatct ttctattccc aaaatagata tgttaccatt 60
240 acactatatt ctgaatattt aaaattttat acttttaagg aaaatcgaat tcctattttc 120
242 ttcttgaaaa aaagatgtct tacctttaaa cgataaaaagt aaaaacttaa attacctgag 180
244 acttgaaactc agaaccattc gattaaaagt cgagtactct accaattaag ctagtaattc 240
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248 ttaacctaat taaactacaa attcaaataa atatatatag ggaaaaggga ttcgaaacct 360
250 ggtatatata atatctacat aaatgtagca atttatagct ataaccactc agccatttct 420
252 gtatataata ataagttaaa tcagattgaa ctgatgtaga tataaaaccc aatggattta 480
254 cagtccatcc cttttaaccc ctgaggcatt aactttatta tacatttaag tagattcgaa 540
256 ctactgatgt tcaatatttg aaaatgaatt atgagtcctt tgccttcgac ctcttagcta 600
258 taaatgttta ctttattaga gataaaggga ctggaacctt tacaacaatt attgttaatg 660
260 gattttctaa ttgaaattta gactttttat aaacatgtat ataaataata aagtcgtttg 720
262 aatatataac taatatatta cagaataaaa attatttttt ctttatatat atttaaat 780
264 ttaattttat tataaaatta actcataaac aacgaatata aattatattt atattattta 840
266 aagtcatttg tgtataccaa atttcacat atctctatta tatactatat aaatgatatt 900
268 cagatttgaa ctgaaataaa ataatttgca attatccact ttacctaat aagttatatt 960
270 attattatat attataagat aaataaagag atttgaactc atataaaaga aaccacaatt 1020
272 ccttatctta accttttagg ttatatattt cattattaaa acttattata tattataaat 1080
274 attattataa atataaaaa tattatttaa atataaatca tttaatattt ttattttaaa 1140
276 attatatata catataataa aattatcatt aaaactagaa gatttaataa aattatattt 1200
278 atataaattt gatataataa tatatatatt atatctataa attaaatttg gtgaaattat 1260

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280 atattttaatt tttttattaa aaaaaattat atccttaccc ttttaatttaa tattataata 1320
282 attaccataa acccttattta aatatacata tttataacctt atataatata tcagagtggg 1380
284 gtatagttttt aaaaacccca tattaaactaa aaagacatct aatctagggtt ctaatagatt 1440
286 taataatttg agatataaat gattctcatg gtgactctgt atttttttca aataatgtaa 1500
288 atatggttta aatgtttata cataattata acagatataat ttacaaaatt ttaattttta 1560
290 atcgaaataa gattgataga catatttatt aatttttaatt ttataattat atttactaga 1620
292 taaatataat aaaaaaggaa gattttaattt ttttaacatt tttattttag gagttaaaaa 1680
294 ttttatcata ataattttat attataaaat a 1711
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298 <211> LENGTH: 516
299 <212> TYPE: DNA
300 <213> ORGANISM: Plasmodium berghei
302 <400> SEQUENCE: 3
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305 atttaaataa caaaatacaa cctgatttat ttgtaagtgc tattgggata ccttctagaa 120
307 taaatatagg tcaaatatta gagggatat atggattaaa tagtttata ttaaaataa 180
309 gatataata atctaataat ttaaaacta attattataa taattatatt aataatttta 240
311 attattataa atataattat aataataatt ttgaattcaa taaaatatca tataattata 300
313 ataaatattt tttaaaaaat ccgtttacgg gccatttaatt acagaatagt atttgtttaa 360
315 ataattatta ttattataaa ttagtacata tggtaaaaaga taaattaaga tatagattca 420
317 taggattata ttctgaatta actcaacaac ctgtaaaagg aaatacaaaa caaggaggtc 480
319 aaagatttgg tgaatggaa gtatgggagc tagaag 516
322 <210> SEQ ID NO: 4
323 <211> LENGTH: 161
324 <212> TYPE: DNA
325 <213> ORGANISM: Plasmodium berghei
327 <400> SEQUENCE: 4
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330 gctataatga cttataata ttattattat aatagaatat aacaaaagg ttaaggtaat 120
332 gaactttgat ttcattaata taggttcgaa tccttttagga c 161
335 <210> SEQ ID NO: 5
336 <211> LENGTH: 17
337 <212> TYPE: DNA
338 <213> ORGANISM: Synthetic
340 <400> SEQUENCE: 5
341 gacctgcatg aaagatg 17
344 <210> SEQ ID NO: 6
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346 <212> TYPE: DNA
347 <213> ORGANISM: Synthetic
349 <400> SEQUENCE: 6
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353 <210> SEQ ID NO: 7
354 <211> LENGTH: 18
355 <212> TYPE: DNA
356 <213> ORGANISM: Synthetic
358 <400> SEQUENCE: 7
359 gccactacta tgaaaatc 18
362 <210> SEQ ID NO: 8

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*invalid response - the only valid <213> responses,  
 per 1.823 of Sequence Rules, are: Unknown,*

*Artificial Sequence,  
 or scientific name  
 (Genus/species)*

*one of the three  
 (see circled portion  
 of item 12 on  
 Error Summary  
 sheet)*

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Input Set : A:\09 369992.txt  
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364 <212> TYPE: DNA
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372 <211> LENGTH: 24
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374 <213> ORGANISM: Synthetic
376 <400> SEQUENCE: 9
377 gcggtaatatc agaaaatgca agcg 24
380 <210> SEQ ID NO: 10
381 <211> LENGTH: 26
382 <212> TYPE: DNA
383 <213> ORGANISM: Synthetic
385 <400> SEQUENCE: 10
386 agcacgaact gacgacagcc atgcac 26
389 <210> SEQ ID NO: 11
390 <211> LENGTH: 18
391 <212> TYPE: DNA
392 <213> ORGANISM: Synthetic
394 <400> SEQUENCE: 11
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399 <211> LENGTH: 18
400 <212> TYPE: DNA
401 <213> ORGANISM: Synthetic
403 <400> SEQUENCE: 12
404 gctagtatta tgtcttct 18
407 <210> SEQ ID NO: 13
408 <211> LENGTH: 18
409 <212> TYPE: DNA
410 <213> ORGANISM: Synthetic
412 <400> SEQUENCE: 13
413 caccattaag tacatcac 18
416 <210> SEQ ID NO: 14
417 <211> LENGTH: 18
418 <212> TYPE: DNA
419 <213> ORGANISM: Synthetic
421 <400> SEQUENCE: 14
422 tggttaataca actccaat 18
425 <210> SEQ ID NO: 15
426 <211> LENGTH: 18
427 <212> TYPE: DNA
428 <213> ORGANISM: Synthetic
430 <400> SEQUENCE: 15
431 gctagtatta tgtcttca 18
434 <210> SEQ ID NO: 16
435 <211> LENGTH: 19

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*Please correct this error in  
 subsequent sequences too*

VERIFICATION SUMMARY                      DATE: 03/23/2001  
PATENT APPLICATION: US/09/369,992        TIME: 09:21:17

Input Set : A:\09 369992.txt  
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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date